

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	172	(channel\$5 session\$3 link\$3) near3 ((common\$3 shar\$5) adj portion\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/08 12:03
L2	26	1 and ("709"/\$ "713"/\$."370"/\$). ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/08 12:35
L3	16802	((multiple plurality 'many' 'more') adj2 (domain domains realm))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/08 12:25
L4	4949	3 and @ad<"19991118"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/08 14:07
L5	4	((multiple plurality 'many' 'more') adj2 (domain domains realm)) with (filter\$3) with router\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/08 12:27
L6	816	((multiple plurality 'many' 'more') adj2 (domain domains realm)) and (filter\$3) and router\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/08 12:38
L7	242	6 and @ad<"19991118"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/08 12:39
L8	7	6 and @ad<"19991118" and (filter\$3 near3 criteria)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/08 12:33

L9	152	7 and ("709"/\$ "713"/\$ "370"/\$). ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/08 14:08
L12	16802	((multiple plurality 'many' 'more') adj2 (domain domains realm))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/08 12:38
L13	2613	(session\$3 line\$3 connection\$3 channel\$5 link\$3) with (filter\$5 and router\$5)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/08 12:38
L14	82	12 and 13	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/08 12:39
L15	21	14 and @ad<"19991118"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/08 13:07
L18	14	'6094525"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/08 13:12
L21	6	(("5644571") or ("5541927") or ("5509123")).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/08 13:17
L24	4	"6684253"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/08 13:43

L25	8	"6594279"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/08 13:47
L26	1	"5856974".pn. and (router\$5 policy\$5 manager\$5 criteria)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/08 13:58
L27	16	interdomain adj router	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/08 13:58
L28	212	(domains realm realms) same ((shar\$3 common) adj2 (session\$3 line\$3 connection\$3 channel\$5 link\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/08 14:13
L29	70	28 and @ad<"19991118"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/08 14:13
L30	19	29 and ("709"/\$ "713"/\$ "370"/\$) ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/08 14:11
L32	82	(domains realm realms) with ((shar\$3 common) adj2 (session\$3 line\$3 connection\$3 channel\$5 link\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/08 14:25
L33	26	32 and @ad<"19991118"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/08 14:25

L37	171	(domain realm realms) with ((shar\$3 common) adj2 (session\$3 line\$3 connection\$3 channel\$5 link\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/08 14:25
L39	224	(domain\$3 realm realms) with ((shar\$3 common) adj2 (session\$3 line\$3 connection\$3 channel\$5 link\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/08 14:25
L40	86	39 and @ad<"19991118"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/08 14:32
S1	2	("4621188").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/08 10:10
S2	177	((multiple plurality many 'more') adj (domain domains realm region\$3)) same ((single shar\$3 common) adj2 (session\$3 line\$3 connection\$3 channel\$5 link\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/08 14:07
S3	42	(("4621188") or ("4677604") or ("4891504") or ("5204961") or ("5208853") or ("5239648") or ("5483596") or ("5544322") or ("5706266") or ("5757924") or ("5805820") or ("5813010") or ("5828832") or ("5918018") or ("5930239") or ("5940591") or ("6330610") or ("6421321") or ("6473763") or ("6487664") or ("6684253")).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/08 10:11
S4	62	S2 and @ad<"19991118"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/08 10:20
S5	3923	((multiple plurality many 'more') adj (domain domains realm region\$3)) and ((single shar\$3 common) adj2 (session\$3 line\$3 connection\$3 channel\$5 link\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/08 12:38

S6	1290	S5 and @ad<"19991118"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/08 12:25
S7	147	S6 and ("709"/\$ "713"/\$ "370"/\$). ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/08 12:03
S10	50	((multiple plurality 'many' 'more') adj2 (domain domains realm)) near3 interconnect\$6	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/08 12:24
S11	45	(session\$3 line\$3 connection\$3 channel\$5 link\$3) and S10	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/08 10:40
S12	21	S11 and @ad<"19991118"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/08 10:41
S13	23	S10 and @ad<"19991118"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/08/08 10:44



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Relevance scale **1 Completeness and incompleteness of trace-based network proof systems**

J. Widom, D. Gries, F. B. Schneider

October 1987 **Proceedings of the 14th ACM SIGACT-SIGPLAN symposium on Principles of programming languages**Full text available:  pdf(1.30 MB)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Most trace-based proof systems for networks of processes are known to be incomplete.

Extensions to achieve completeness are generally complicated and cumbersome. In this paper, a simple trace logic is defined and two examples are presented to show its inherent incompleteness. Surprisingly, both examples consist of only one process, indicating that network composition is not a cause of incompleteness. Axioms necessary and sufficient for the relative completeness of a trace logic are then pre ...

2 Analytic performance model of the U.S. en route air traffic control computer systems

Sandra Bleistein, Shin-Sun Cho, Robert T. Goettge

August 1985 **ACM SIGMETRICS Performance Evaluation Review, Proceedings of the 1985 ACM SIGMETRICS conference on Measurement and modeling of computer systems**, Volume 13 Issue 2Full text available:  pdf(1.01 MB)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

An analytic performance modeling case study of a complex command and control computer system is presented. A queueing network model of the system was developed and validated. Features of the model found to be critical to its accuracy were detailed software models, general service time distributions, and models of transient response time behavior. Response time prediction accuracy of the model was validated to 20 percent for moderate device utilizations. The study shows that analytic techniq ...

3 Single display groupware: a model for co-present collaboration

Jason Stewart, Benjamin B. Bederson, Allison Druin

May 1999 **Proceedings of the SIGCHI conference on Human factors in computing systems: the CHI is the limit**Full text available:  pdf(1.14 MB)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We introduce a model for supporting collaborative work between people that are physically close to each other. We call this model Single Display Groupware (SDG). In this paper, we describe the model, comparing it to more traditional remote collaboration. We describe the requirements that SDG places on computer technology, and our understanding of the benefits and costs of SDG systems. Finally, we describe a prototype SDG system that we built and the results of a usability test we ran ...

Keywords: CSCW, KidPad, Pad++, children, educational applications, input devices, single display groupware

4 Fair scheduling in wireless packet networks

Songwu Lu, Vaduvur Bharghavan, R. Srikant

August 1999 **IEEE/ACM Transactions on Networking (TON)**, Volume 7 Issue 4

Full text available:  pdf(275.27 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)



5 Fair scheduling in wireless packet networks

Songwu Lu, Vaduvur Bharghavan, Rayadurgam Srikant

October 1997 **ACM SIGCOMM Computer Communication Review , Proceedings of the ACM SIGCOMM '97 conference on Applications, technologies, architectures, and protocols for computer communication**, Volume 27 Issue 4

Full text available:  pdf(2.17 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)



Fair scheduling of delay and rate-sensitive packet flows over a wireless channel is not addressed effectively by most contemporary wireline fair scheduling algorithms because of two unique characteristics of wireless media: (a) bursty channel errors, and (b) location-dependent channel capacity and errors. Besides, in packet cellular networks, the base station typically performs the task of packet scheduling for both downlink and uplink flows in a cell; however a base station has only a limited k ...

6 Reasoning about continuations with control effects

P. Jouvelot, D. K. Gifford

June 1989 **ACM SIGPLAN Notices , Proceedings of the ACM SIGPLAN 1989 Conference on Programming language design and implementation**, Volume 24 Issue 7

Full text available:  pdf(938.87 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)



We present a new static analysis method for first-class continuations that uses an effect system to classify the control domain behavior of expressions in a typed polymorphic language. We introduce two new control effects, goto and comefrom, that describe the control flow properties of expressions. An expression that does not have a goto effect is said to be continuation following because it will always call its passed return continuation. An expression tha ...

7 Trace-based network proof systems: expressiveness and completeness

Jennifer Widom, David Gries, Fred B. Schneider

May 1992 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 14 Issue 3

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We consider incomplete trace-based network proof systems for safety properties, identifying extensions that are necessary and sufficient to achieve relative completeness. We investigate the expressiveness required of any trace logic to encode these extensions.

Keywords: process networks, safety properties, temporal logics, trace logics

8 A dynamic disk spin-down technique for mobile computing

David P. Helmbold, Darrell D. E. Long, Bruce Sherrod

November 1996 **Proceedings of the 2nd annual international conference on Mobile computing and networking**

Full text available:  pdf(1.46 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)



9 Two issues in reservation establishment

Scott Shenker, Lee Breslau

October 1995 **ACM SIGCOMM Computer Communication Review , Proceedings of the conference on Applications, technologies, architectures, and protocols for computer communication**, Volume 25 Issue 4Full text available:  pdf(1.88 MB)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper addresses two issues related to resource reservation establishment in packet switched networks offering real-time services. The first issue arises out of the natural tension between the local nature of reservations (i.e., they control the service provided on a particular link) and the end-to-end nature of application service requirements. How do reservation establishment protocols enable applications to receive their desired end-to-end service? We review the current one-pass and two-p ...

10 A wireless fair service algorithm for packet cellular networks

Songwu Lu, Thyagarajan Nandagopal, Vaduvur Bharghavan

October 1998 **Proceedings of the 4th annual ACM/IEEE international conference on Mobile computing and networking**Full text available:  pdf(1.47 MB)Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)11 Measurement and analysis of the error characteristics of an in-building wireless network

David Eckhardt, Peter Steenkiste

August 1996 **ACM SIGCOMM Computer Communication Review , Conference proceedings on Applications, technologies, architectures, and protocols for computer communications**, Volume 26 Issue 4Full text available:  pdf(168.08 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

There is general belief that networks based on wireless technologies have much higher error rates than those based on more traditional technologies such as optical fiber, coaxial cable, or twisted pair wiring. This difference has motivated research on new protocol suites specifically for wireless networks. While the error characteristics of wired networks have been well documented, less experimental data is available for wireless LANs. In this paper we report the results of a study characterizing ...

12 Local networking and internetworking in the V-system

David R. Cheriton

October 1983 **ACM SIGCOMM Computer Communication Review , Proceedings of the eighth symposium on Data communications**, Volume 13 Issue 4Full text available:  pdf(896.12 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Local networking can be treated as a subset of internetworking for remote terminal access and file transfer. However, a distributed operating system, such as the V-System uses a local network more as an extended backplane than a fast, miniature long-haul network. This paper describes the use of server-based "intelligent gateways" to provide internetworking using standard protocols in conjunction with an efficient light-weight protocol for V IPC on a lo ...

13 Extensions to communicating sequential processes to allow protocol performance specification

J. J. Zic

August 1987 **ACM SIGCOMM Computer Communication Review , Proceedings of the ACM workshop on Frontiers in computer communications technology**, Volume 17 Issue 5

Full text available:  pdf(832.69 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Formalisms based on Hoare's Communicating Sequential Processes (CSP) and Milner's Calculus of Communicating Systems (CCS) for verifying protocols are currently being used by the International Standard Organisation (ISO). However, these models need to be extended if protocol performance specification and verification is to be done, as neither of these models have timing information (other than sequencing) nor a way of specifying controlled loss of information. This paper presents ...

14 On contention resolution protocols and associated probabilistic phenomena

P. D. MacKenzie, C. G. Plaxton, R. Rajaraman

March 1998 **Journal of the ACM (JACM)**, Volume 45 Issue 2

Full text available:  pdf(389.75 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Consider an on-line scheduling problem in which a set of abstract processes are competing for the use of a number of resources. Further assume that it is either prohibitively expensive or impossible for any two of the processes to directly communicate with one another. If several processes simultaneously attempt to allocate a particular resource (as may be expected to occur, since the processes cannot easily coordinate their allocations), then none succeed. In such a framework, it is a chal ...

Keywords: emulation protocols, hash functions, parallel computation

15 Wait-free synchronization

Maurice Herlihy

January 1991 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 13 Issue 1

Full text available:  pdf(1.75 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

A wait-free implementation of a concurrent data object is one that guarantees that any process can complete any operation in a finite number of steps, regardless of the execution speeds of the other processes. The problem of constructing a wait-free implementation of one data object from another lies at the heart of much recent work in concurrent algorithms, concurrent data structures, and multiprocessor architectures. First, we introduce a simple and general technique, bas ...

Keywords: linearization, wait-free synchronization

16 Bandwidth quantization and states reduction in the broadband ISDN

Chin-Tau Lea, Anwar Alyatama

June 1995 **IEEE/ACM Transactions on Networking (TON)**, Volume 3 Issue 3

Full text available:  pdf(902.88 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

17 On contention resolution protocols and associated probabilistic phenomena

P. D. MacKenzie, C. G. Plaxton, R. Rajaraman

May 1994 **Proceedings of the twenty-sixth annual ACM symposium on Theory of computing**

Full text available:  pdf(1.09 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

18 Linearity and the pi-calculus

Naoki Kobayashi, Benjamin C. Pierce, David N. Turner

September 1999 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 21 Issue 5

Full text available:  pdf(402.81 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The economy and flexibility of the pi-calculus make it an attractive object of theoretical study and a clean basis for concurrent language design and implementation. However, such generality has a cost: encoding higher-level features like functional computation in pi-calculus throws away potentially useful information. We show how a linear type system can be used to recover important static information about a process's behavior. In particular, we can guarantee that two processes communicat ...

Keywords: concurrency, confluence, linear types, pi-calculus, process calculi

19 Multiwavelength optical networks with limited wavelength conversion 

Rajiv Ramaswami, Galen Sasaki

December 1998 **IEEE/ACM Transactions on Networking (TON)**, Volume 6 Issue 6

Full text available:  pdf(408.32 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: lightpaths, optical networks, routing, wavelength conversion, wavelength division multiplexing

20 A computer science undergraduate specialization in telecommunications and computer networking 

Anthony C. L. Barnard, Barrett R. Bryant, Warren T. Jones, Kevin D. Reilly

March 1996 **ACM SIGCSE Bulletin, Proceedings of the twenty-seventh SIGCSE technical symposium on Computer science education**, Volume 28 Issue 1

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